Inventor: OKOCHI et al.
Docket No.: 10873.1604USWO
Title: NOVEL NOTCH-ORIGIN POLYPEPTIDES AND BIOMARKERS AND REAGENTS
USING THE SAME
Attorney Name: Douglas P. Mueller
Phone No.: 612.371.5237
Sheet 1 of 11

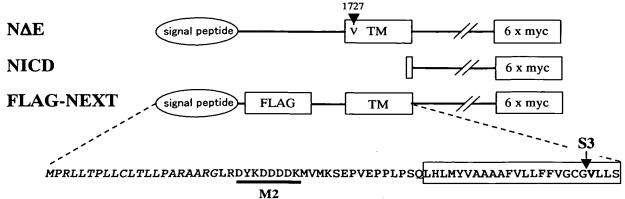
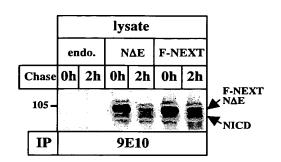


FIG.1A





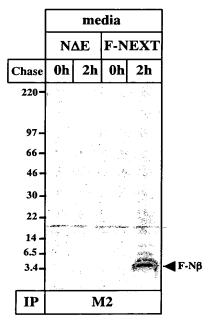
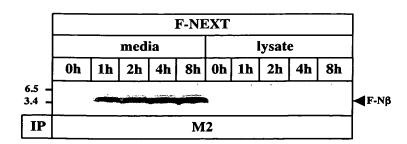
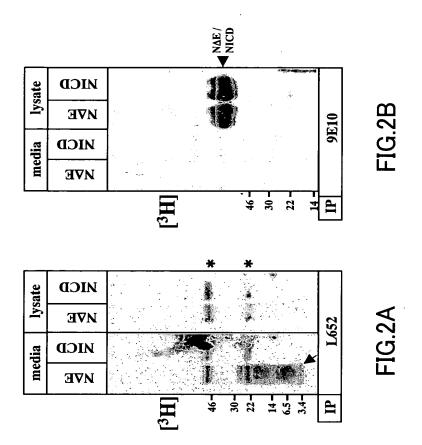
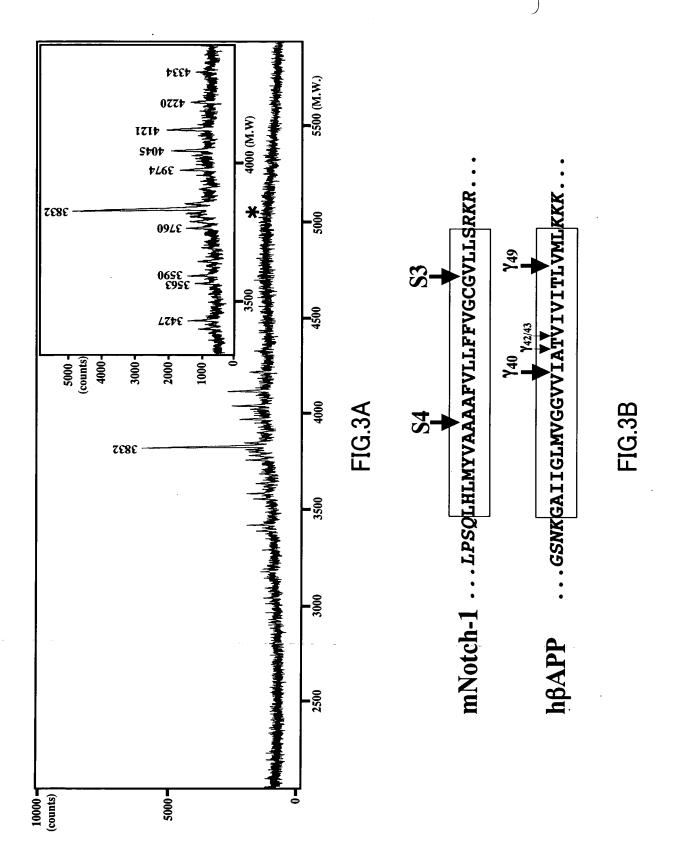


FIG.1C





Inventor: OKOCHI et al.
Docket No.: 10873.1604USWO
Title: NOVEL NOTCH-ORIGIN POLYPEPTIDES AND BIOMARKERS AND REAGENTS
USING THE SAME
Attorney Name: Douglas P. Mueller
Phone No.: 612.371.5237
Sheet 3 of 11



Q	
4	
(5)	
\simeq	
┸	

'FVGCG ¹⁷⁴³ -c (M.W.5057.67)	³⁶ -c (M.W.4333.81)	-c (M.W.4220.66)	(M.W.4121.53)	(M.W.3974.36)	(M.W.4045.45)	(M.W.3832.22)	(M.W.3562.89)	(M.W.3761.15)	(M.W.3590.95)	(M.W.3427.78)
LHLMYVAAAAFVLLF	$ LHLMYVAAAAFVL^{173}$	$ LHLMYVAAAAFV^{1735} $	$ LHLMYVAAAAF^{1734} - ($	LHLMYVAAAA1733-c) LHLMYVAA ¹⁷³¹ -c	LHLMYVAA1731_c) LHLMYVAA ¹⁷³¹ -c	$ LHLMYVA^{1730}$ -c	LHLMY ¹⁷²⁸ -c	LHLM ¹⁷²⁷ -c
N-LRDYKDDDDKMVMKSEPVEPPLPSQ LHLMYVAAAAFVLLFFVGCG ¹⁷⁴³ -c	N-LRDYKDDDDKMVMKSEPVEPPLPSQ LHLMYVAAAAFVL ¹⁷³⁶ -c	N-LRDYKDDDDKMVMKSEPVEPPLPSQ	N-LRDYKDDDDKMVMKSEPVEPPLPSQ	N-LRDYKDDDDKMVMKSEPVEPPLPSQ	N-RGLRDYKDDDDKMVMKSEPVEPPLPSQ	N-LRDYKDDDDKMVMKSEPVEPPLPSQ LHLMYVAA ¹⁷³¹ -c	N-DYKDDDDKMYMKSEPVEPPLPSQ LHLMYVAA ¹⁷³¹ -c	$_{ m N}$ -LRDYKDDDDKMVMKSEPVEPPLPSQ $ $ LHLMYVA 1730 - $_{ m C}$	$_{ m N}$ -LRDYKDDDDKMVMKSEPVEPPLPSQ LHLMY 1728 -c	N-LRDYKDDDDKMVMKSEPVEPPLPSQ LHLM ¹⁷²⁷ -c

IM

--ILCSPV-VG-VLLLALGALL-VLQLI --VLCSPV-AG-VILLALGALL-VLQLI GAIIGLMVGGVV♥IATVI-VITL♥VML --LLPLLV-AGAVFLLIIFILG-VMVA --LLPLLV-AGAVLLLVILVLG-VMVA --LLYLLA-VAVVIILFFILLG-VIMA --LLYLLA-VAVVIILFIILLG-VIMA LHLMYVAA AAFVLLFFVGCG-VLL LHFMYVAA-AAFVLLFFVGCG--VLL TM mNotch-1 mNotch-2 hNotch-2 mNotch-3 hNotch-3 mNotch-4 hNotch-1 hNotch-4 ьβарр Inventor: OKOCHI et al.
Docket No.: 10873.1604USWO
Title: NOVEL NOTCH-ORIGIN POLYPEPTIDES AND BIOMARKERS AND REAGENTS

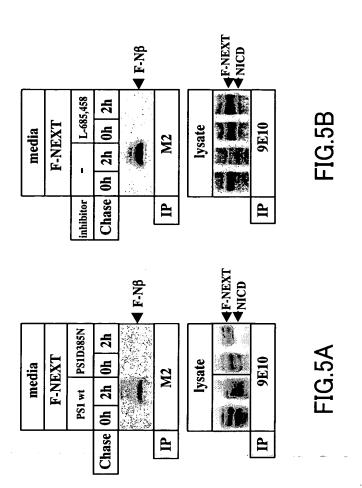
USING THE SAME

Attorney Name: Douglas P. Mueller

Phone No.: 612.371.5237

Sheet 5 of 11

10/521691



Inventor: OKOCHI et al.
Docket No.: 10873.1604USWO
Title: NOVEL NOTCH-ORIGIN POLYPEPTIDES AND BIOMARKERS AND REAGENTS
USING THE SAME
Attorney Name: Douglas P. Mueller
Phone No.: 612.371.5237

Sheet 6 of 11

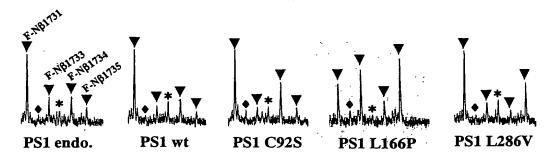


FIG.6A

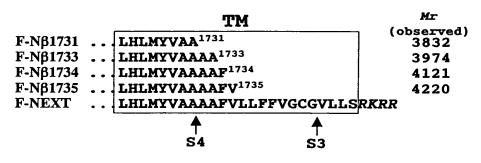


FIG.6B

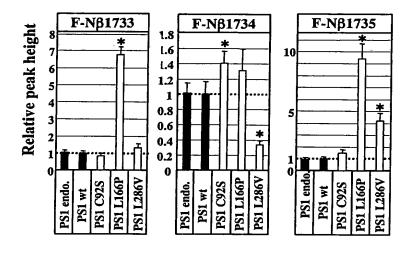
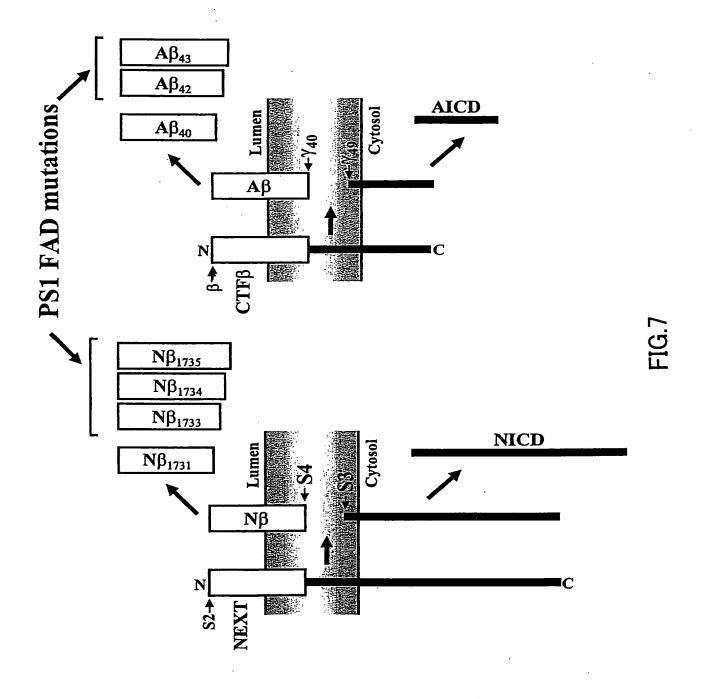


FIG.6C



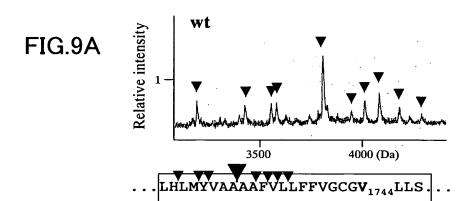


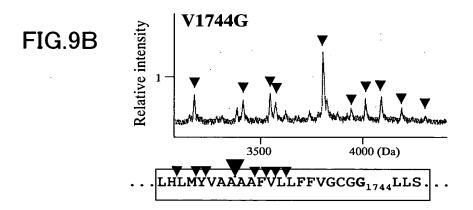
10/521691 Attorney Name: Douglas P. Mueller Phone No.: 612.371.5237 Sheet 8 of 11 Notch-1 βΑΡΡ FIG.8A NH2 NH2 $S2/\alpha$ lumen S4/y40 S3/y49 cytosol СООН СООН signal peptide **FLAG** TM 6 x myc FIG.8B **S4** LHLMYVAA[▼]AAFVLLFFVGCG[▼]Ÿ₁₇₄₄LLS G,L lysate FIG.8C 1.2 V1744 V G L 0h 2h Chase 0h 2h 0h 2h Relative [35S] incorporation F-NEXT/PS1 wt 105 F-NEXT 0.8 NICD 0.6 F-NEXT/PS1 D385N 105 0.4 F-NEXT **▼**NICD 0.2 0 S3 **S S S**3 S media V1744 FIG.8D V1744 G PS1 W M FIG.8E 6.5 F-Nβ 3.4

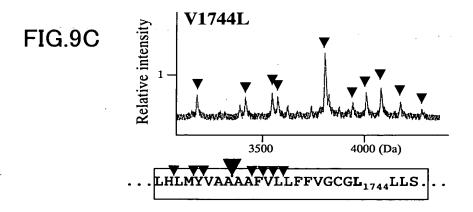
Docket No.: 10873.1604USWO
Title: NOVEL NOTCH-ORIGIN POLYPEPTIDES AND BIOMARKERS AND REAGENTS

Inventor: OKOCHI et al.

USING THE SAME







Inventor: OKOCHI et al.
Docket No.: 10873.1604USWO
Title: NOVEL NOTCH-ORIGIN POLYPEPTIDES AND BIOMARKERS AND REAGENTS

USING THE SAME

Attorney Name: Douglas P. Mueller Phone No.: 612.371.5237

Sheet 10 of 11

10/521691

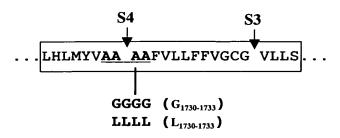


FIG.10A

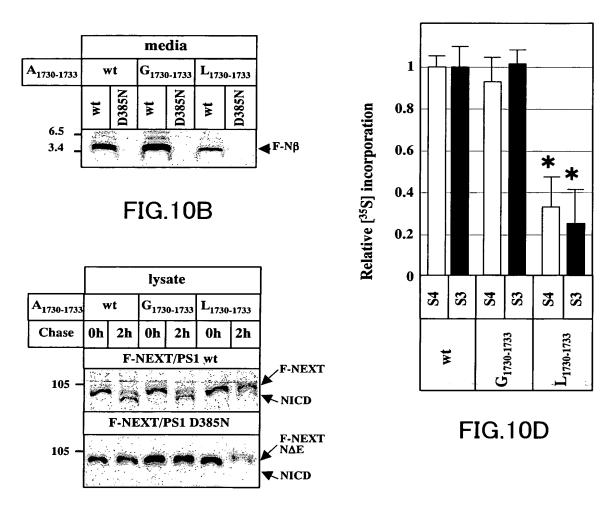


FIG.10C

Attorney Name: Douglas P. Mueller Phone No.: 612.371.5237 Sheet 11 of 11

10/521691

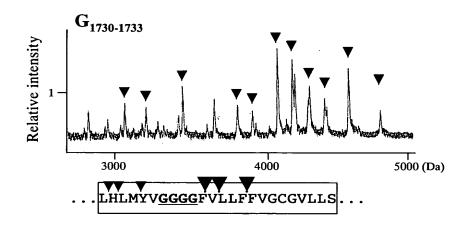


FIG.11A

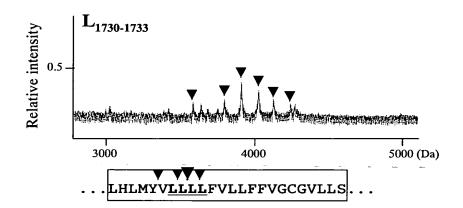


FIG.11B